

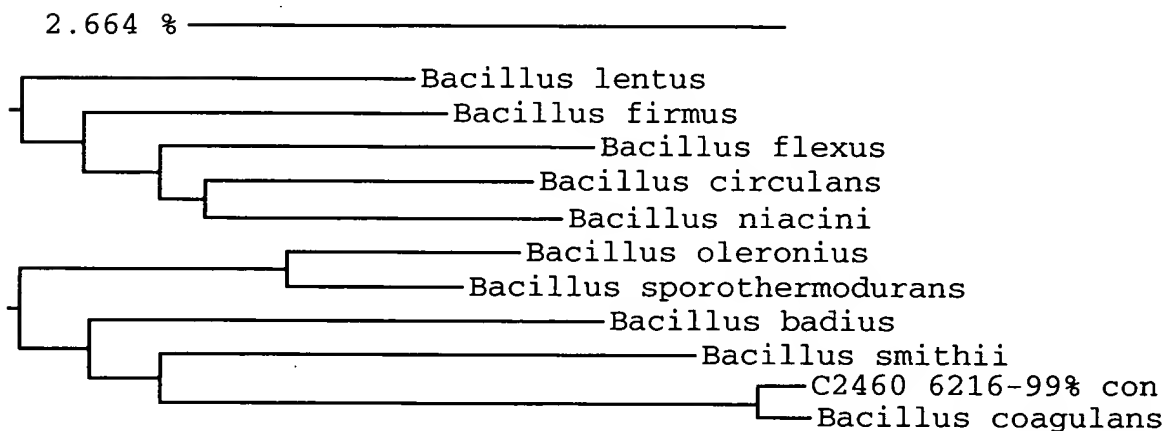


Fig. 6

Inventor: Farmer  
Title: Inhibition of Pathogens by Probiotic...  
Serial No. 09/708,870; Filed: November 8, 2000  
Mintz, Levin, Cohn, Ferris, Glovsky and Popeo  
Telephone: (617) 542-6000

Alignment: 1549 C2460 6216-99% con  
0.65 % 1549 Bacillus coagulans  
4.84 % 1548 Bacillus oleronius  
5.36 % 1550 Bacillus smithii  
5.62 % 1548 Bacillus sporothermodurans  
5.65 % 1551 Bacillus badius  
5.79 % 1547 Bacillus firmus  
5.85 % 1547 Bacillus lentus  
5.90 % 1543 Bacillus circulans  
5.95 % 1545 Bacillus niacini  
6.30 % 1548 Bacillus flexus

### Neighbor Joining Tree



### Concise Alignment

1  
111222222241  
347011256784  
902967240204  
C2460 6216-99% con TCGAYTTWTTYC (SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T)  
Bacillus coagulans CTRGCGCACCCG (SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)

Fig. 6

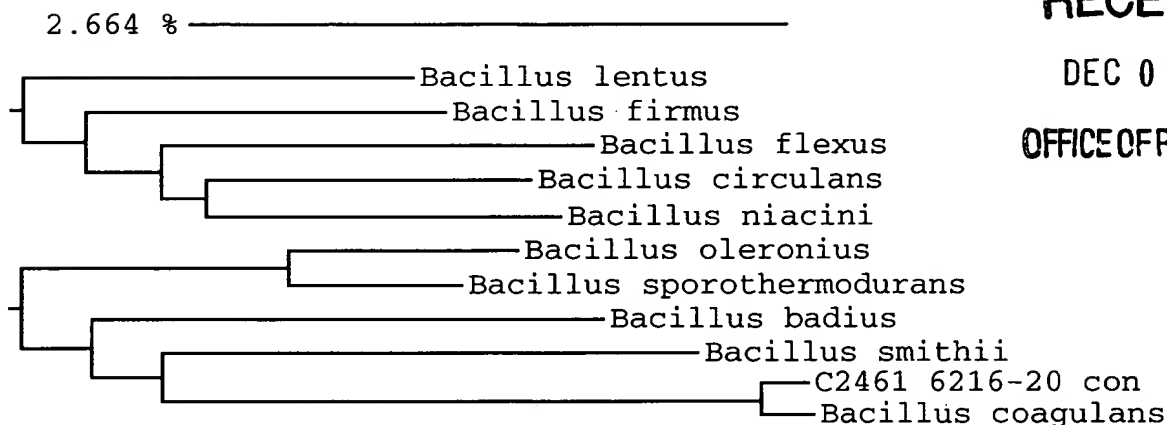


Fig. 7

Inventor: Farmer  
 Title: Inhibition of Pathogens by Probiotic...  
 Serial No. 09/708,870; Filed: November 8, 2000  
 Mintz, Levin, Cohn, Ferris, Glovsky and Popeo  
 Telephone: (617) 542-6000

Alignment: 1549 C2461 6216-20 con  
 0.65 % 1549 Bacillus coagulans  
 4.84 % 1548 Bacillus oleronius  
 5.36 % 1550 Bacillus smithii  
 5.62 % 1548 Bacillus sporothermodurans  
 5.65 % 1551 Bacillus badius  
 5.79 % 1547 Bacillus firmus  
 5.85 % 1547 Bacillus lentus  
 5.90 % 1543 Bacillus circulans  
 5.95 % 1545 Bacillus niacini  
 6.30 % 1548 Bacillus flexus

### Neighbor Joining Tree



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### Concise Alignment

1  
 111222222241  
 347011256784  
 902967240204  
 C2461 6216-20 con TCGAYTTWTTYC (SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T)  
 Bacillus coagulans CTRGCGCACCCG (SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)

Fig. 7

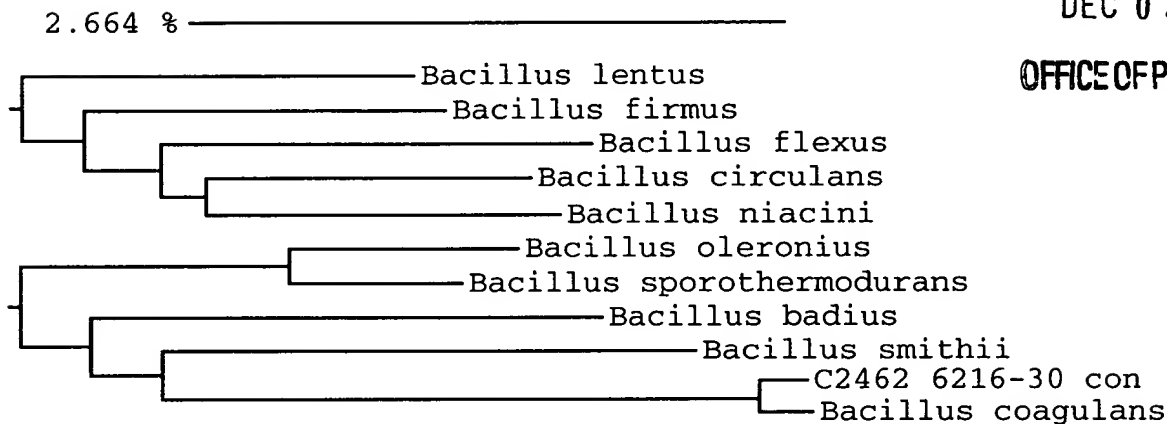


Fig. 8

Inventor: Farmer  
Title: Inhibition of Pathogens by Probiotic...  
Serial No. 09/708,870; Filed: November 8, 20  
Mintz, Levin, Cohn, Ferris, Glovsky and Pope  
Telephone: (617) 542-6000

Alignment: 1549 C2462 6216-30 con  
0.65 % 1549 Bacillus coagulans  
4.84 % 1548 Bacillus oleronius  
5.36 % 1550 Bacillus smithii  
5.62 % 1548 Bacillus sporothermodurans  
5.65 % 1551 Bacillus badius  
5.79 % 1547 Bacillus firmus  
5.85 % 1547 Bacillus lentus  
5.90 % 1543 Bacillus circulans  
5.95 % 1545 Bacillus niacini  
6.30 % 1548 Bacillus flexus

### Neighbor Joining Tree



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### Concise Alignment

1  
11122222241  
347011256784  
902967240204  
C2462 6216-30 con TCGAYTTWTTYC (SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T)  
Bacillus coagulans CTRGCGCACCCG (SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)

Fig. 8